

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	4	("2863707").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/07/28 12:15
S2	2	("4903580").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/07/28 12:15
S3	2	("4817505").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/07/28 12:15
S4	2	("6928921").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/07/28 12:36
S7	1155	(418/94).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/07/28 12:48
S8	3678	(417/415,902,368,372).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/07/28 12:49
S9	1095	(92/181r,172).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/07/28 12:51
S10	962	(184/6.16,6.18).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/07/28 13:02
S11	172	S10 and (hermetic\$4) and compressor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 13:03
S12	1	S9 and (hermetic\$4) and compressor and lubricat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 13:14
S13	40	S9 and compressor and lubricat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 13:14

S14	139	\$9 and ( compressor or engine or pump) and lubricat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 13:15
S15	496	\$8 and ( compressor and hermetic (\$4) and lubricat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 13:21
S16	2	("2274942").URPN.	USPAT	OR	ON	2009/07/28 13:49
S17	131	\$7 and ( compressor and hermetic (\$4) and lubricat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 13:55
S18	2	"20090101442"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 14:05
S19	260	((MAKOTO) near2 (KATAYAMA)). INV.	EPO; JPO; DERWENT	OR	ON	2009/07/28 14:12
S20	0	(" pistonwith(depthnear2groove) withoilwithlubricat\$3").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/07/28 14:34
S21	5	piston with(depth near2 groove) with oil with lubricat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 14:34
S22	69	((depth near2 groove)with oil with lubricat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 14:39
S23	7	S22 same piston	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 14:40
S24	788	417/902	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 14:50
S25	10	S24 and (hydrocarbon near2 refrigerant)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 14:50
S26	1949	piston with ((circular or semicircular) near4 groove)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 15:05
S27	69	S26 and compressor and oil and lubricat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 15:06

S28	107	piston with (semicircular near2 groove)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 15:13
S29	14	S28 and oil and lubricat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 15:14
S30	280	piston with (curve\$5 near2 groove)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 15:19
S31	51	S30 and oil and lubricat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 15:19
S32	2	"20050265863"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 15:29
S33	23	("1302231"   "1386766"   "1464612"   "1717750"   "1854271"   "2410405").PN. OR ("4075934").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/07/28 15:55
S34	685	(92/233-237).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/07/28 16:06
S35	74	S34 and oil and lubricat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 16:06
S36	7	"5839351"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 16:50
S37	3	"5092747"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/07/28 16:51
S38	10	"2863707"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/20 16:05
S39	10	"4903580"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/20 16:06
S40	10	"4817505"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/20 16:07

S41	699	(92/232-236).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/12/20 16:12
S42	63	S41 and (compressor or engine) and lubricat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/20 16:13
S43	774	piston same (semi near2 circular near2 (groove or recess))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/20 22:37
S44	194	S43 and (compressor or engine)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/20 22:38
S45	3	"2003223891"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/21 02:07
S46	3	"20030223891"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/21 02:08
S47	2	("2147956").URPN.	USPAT	OR	ON	2009/12/21 02:25
S48	24	("1460537"   "1487965"   "1528817"   "1947818"   "2147956"   "2197942"   "2300009"   "3061175"   "3153987"   "4522112"   "5174728"   "5816134"   "5943943"   "5988041").PN. OR ("6431053").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/21 02:30
S49	4	"2003065236"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/21 02:33
S50	2	"20030065236"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/21 02:33
S51	7	"5839351"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/12/21 02:38

**EAST Search History (Interference)**

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